

## Corrigendum

Corrigendum to “A novel analytical method for in vivo phosphate tracking” [FEBS Lett. 580 (2006) 5885–5893]<sup>☆</sup>

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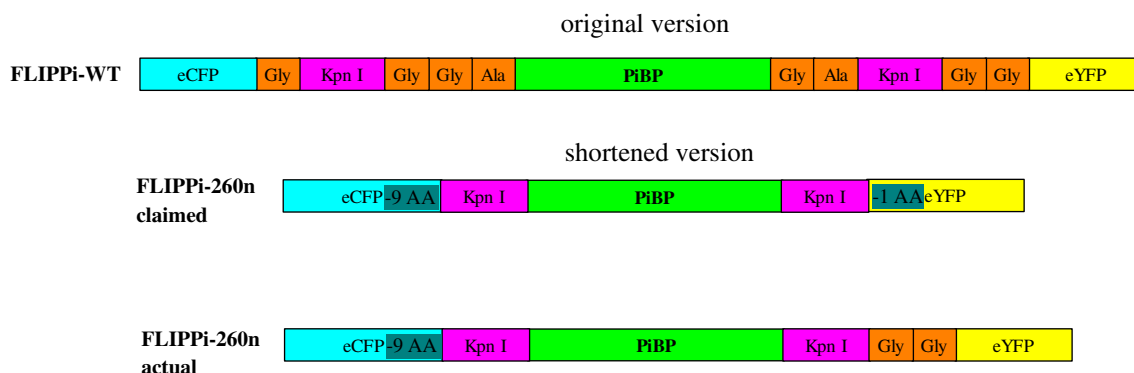
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An error occurred in the description of the way the sensors were constructed. Key differences are the length of the linkers, the presence of eYFP instead of Venus and a silent C-to-T transition at Tyr<sup>313</sup> as compared to the published wild-type sequence [1] (nucleotide sequence position 1633–1635 TAC changed to TAT).

The corrected cloning procedure is described below, the complete corrected sequences and the clones are available at <http://www.addgene.org/pgvec1?f=d&cmd=listpl&tpage=2>.

A truncated PiBP (*Synechococcus* strain A; ORF01723), encoding the predicted core of the mature protein without periplasmic leader sequence, was amplified by PCR from genomic DNA of the thermophilic cyanobacterium [1] using the primers 5'-ATTGGTACCGTAGGATTTCTAACAGCG-3' and 5'-ATAGGTACCGTTAACGGTGATGGAATC-3'. The PCR fragment was cloned into the *Kpn*I site of FLIPmal-25μ [2] in pRSET-B (Invitrogen, USA), exchanging the sequence encoding the maltose-binding protein with that of PiBP and creating a translational fusion of eCFP-corePiBP-eYFP. The resulting plasmid was named pRSET-FLIPPi-WT corresponding to FLIPPi-840n sensor protein, which showed an affinity of 840 nM for phosphate (“original version”; cf. figure below). A total of 15 amino acids were shortened from the pRSET-FLIPPi-WT sequence: 9 from the C-terminus of the eCFP, 4 and 2 from the left and the right binding protein-fluorophore linker, respectively (“shortened version”; cf. figure below), yielding pRSET-FLIPPi-260n with an affinity for phosphate of 260 nM. Affinity mutants were generated as described in the original text.



## References

- [1] Steunou, A.S. et al. (2006) In situ analysis of nitrogen fixation and metabolic switching in unicellular thermophilic cyanobacteria inhabiting hot spring microbial mats. *Proc. Natl. Acad. Sci. USA* 103, 2398–2403.
- [2] Fehr, M., Frommer, W.B. and Lalonde, S. (2002) Visualization of maltose uptake in living yeast cells by fluorescent nanosensors. *Proc. Natl. Acad. Sci. USA* 99, 9846–9851.

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